

EMINERE™ 1 / 2 / 3 / 4

Eminere was designed for a wide range of exterior and interior applications with a variety of lens options that can be used for Flood Lighting, Wall Grazing, Wall Washing and Accent Lighting. Equipped with Robe's unique 18-bit colour mixing resolution ensures extra fine colour tuning as well as smooth dimming at low level intensity. Designed in our state-of-the-art R&D facility by industry experts with over 20 years experience in the field, Eminere is IP67 rated and can withstand extreme conditions. Eminere is available in 1, 2, 3, and 4 foot sizes (300 / 600 / 900 / 1200 mm) with RGBW, RGBA or PureWhite single chips as standard and is easy to control, 1 pixel per foot. Eminere fixtures can be used for both permanent and temporary installations, including various architectural and archtainment applications.



KEY FEATURES

Application Flexibility

Eminere's optics can be used for various applications including wall grazing, flood lighting, wall washing, wide flood lighting, spot lighting and accent lighting.

Quick and Easy Installation

Plug&Play system means easy installation, fast adjustment and intuitive programming with self-addressing.

Naturally looking result

Full spectrum coverage by using RGBW colour mixing with precise wave lengths of each colour for modern architecture or specifically designed combination of RGBA to highlight every single detail of historical buildings or monuments.

Durability

Eminere is rated IP67, suitable for wet locations and has a protection rating of IK06. Marine grade finish option also available for harsh environmental conditions.

CONTROL & PROTOCOLS



OPTIONAL



OPTIONAL

STANDARD & SPECIFICATION



Vibration Standard for Bridge



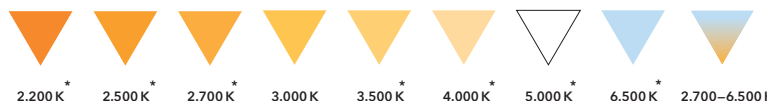
5 Year Warranty

COLOURS



RGBW RGBA Pure White Tuneable White

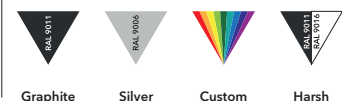
COLOUR TEMPERATURE



2.200 K* 2.500 K* 2.700 K* 3.000 K 3.500 K* 4.000 K* 5.000 K* 6.500 K* 2.700-6.500 K*

* UPON REQUEST

FINISH OPTIONS



Graphite Black Silver Custom Paint Colour Harsh Environment

OPTIC OPTIONS

SYMMETRICAL



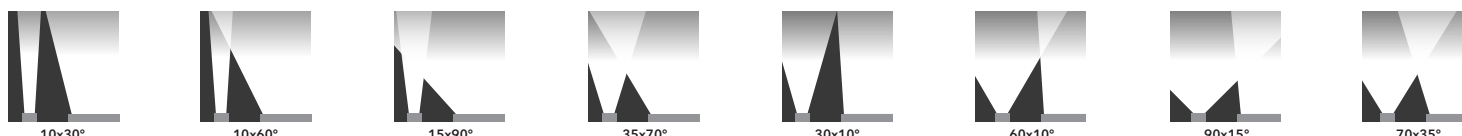
9° 15° 30° 50° 65° 100°

ASYMMETRICAL



WIDE WALLWASHER WALLWASHER

BI-SYMMETRICAL



10x30° 10x60° 15x90° 35x70° 30x10° 60x10° 90x15° 70x35°

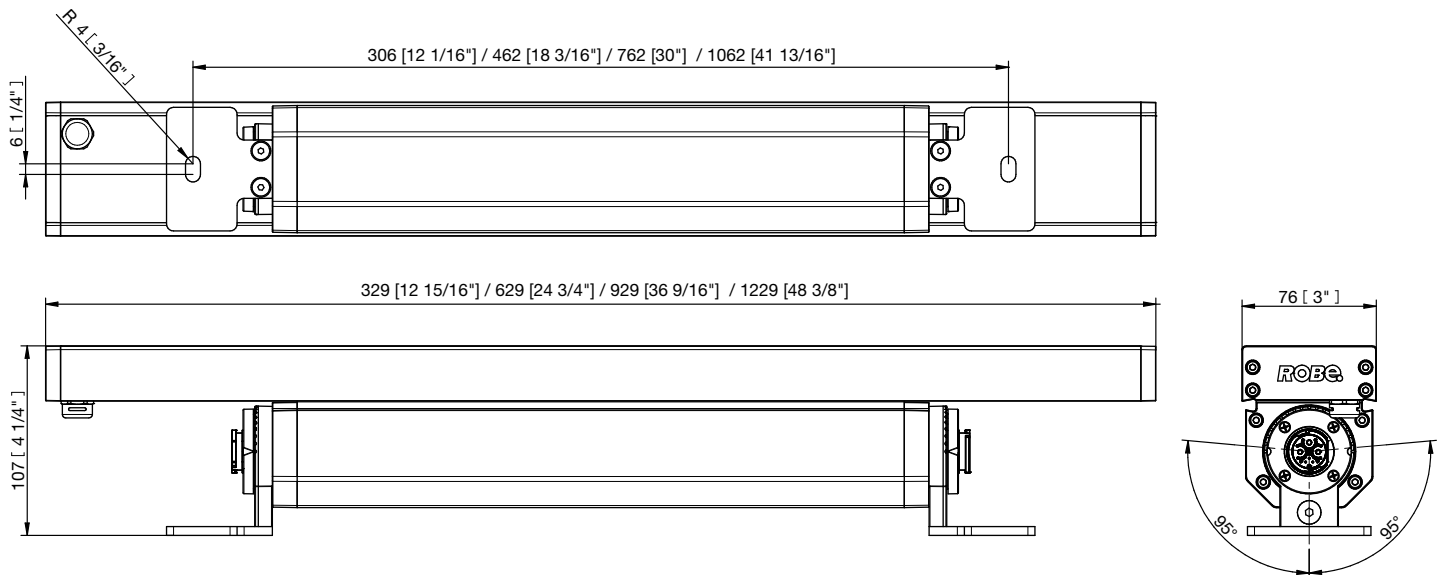
EMINERE SPECIFICATION

ELECTRICAL	Input Voltage	120 - 277 V AC 50/60 Hz			
	Typical Power Consumption	Eminere 1		25 W	
		Eminere 2		45 W	
		Eminere 3		65 W	
Eminere 4		85 W			
OPTICAL	Light Source	12, 24, 36, 48 x High Power Single Chip LEDs			
	Colour Variants	RGBW (W - 6.500 K)		RGBA	PW (W - 3.000 K)
		Variants On Request (TW (2700 - 6500 K), 2.200 K 2.500 K 2.700 K 3.500 K 4.000 K 5.000 K 6.500 K)			
	Beam Angle	Symmetrical:	9° 15° 30° 50° 65° 100°		
		Bi-symmetrical:	10° x 30° 30° x 10° 10° x 60° 60° x 10° 35° x 70° 70° x 35° 15° x 90° 90° x 15°		
		Asymmetrical:	Wallwasher Wide Wallwasher		
	Lumen Output Delivered	Eminere 1		1.147 lm, RGBW @ 9°	
		Eminere 2		2.294 lm, RGBW @ 9°	
Eminere 3		3.441 lm, RGBW @ 9°			
Eminere 4		4.588 lm, RGBW @ 9°			
Projected Lumen Maintenance	60.000 hrs (L70 @ 25 °C / 77 °F)				
CONTROL	Interface Protocol	Via E-Box range or Wireless DMX (excluded Eminere 1)			
	E-Box Control Protocols	USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net			
	Wireless DMX (Option)	Lumen Radio CRMX Technology			
	Operating Modes	Pixel (12 LEDs/300mm) or Fixture mode			
	Setting / Addressing	Via Two Row LCD Display with Control Buttons or RDM communicator			
	Power Supply	Integrated			
	Connectivity	E-box Lite	144 of Eminere 1 (@ 230 V and 40m cable) via 1 Output		
E-box Daisy		144 of Eminere 1 (@ 230 V and 40m cable) via 1 Output			
E-box Star		144 of Eminere 1 (@ 230 V and 40m cable) via 6 Outputs			
PHYSICAL	Width x Height x Length	Eminere 1		76 x 107 x 329 mm (2.99 x 3.58 x 12.95 in.)	
		Eminere 2		76 x 107 x 629 mm (2.99 x 3.58 x 24.76 in.)	
		Eminere 3		76 x 107 x 929 mm (2.99 x 3.58 x 36.57 in.)	
		Eminere 4		76 x 107 x 1229 mm (2.99 x 3.58 x 48.38 in.)	
	Weight	2.5 kg 5.5 lbs	4.0 kg 8.82 lbs	6.02 kg 13.27 lbs	7.7 kg 17.0 lbs
	Housing	High Pressure Extruded Aluminium Body End Caps - Die-Cast Aluminium Tempered Glass			
	Finish Options	Standard Colour		Graphite Black (RAL 9011) Silver (RAL 9006)	
		Cost Option		Custom RAL Harsh Environment (RAL 9016, RAL 9011)	
	Cables / Connections	IP67 Hybrid Connection (Power + Data)			
	Mounting Method	Surface Mount With Different Type of Brackets			
	Adjustability	+/- 95°			
	Protection Factor	IP67 / Suitable For Wet Locations			
	IK Rating	IK06			
	Cooling System	Convection			
Operating Ambient Temperature	-20 °C / +40 °C (-4 °F / +104 °F)				
Operating Temperature	+67 °C @ Ambient +40 °C (+153 °F @ Ambient +104 °F)				
CERTIFICATION	Listings	ETL / cETL, CE, RoHS			

EMINERE SPECIFICATION

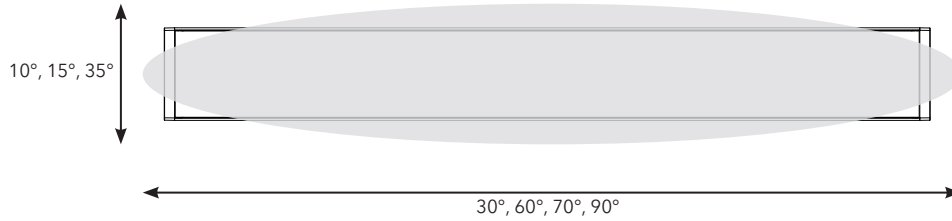
ACCESSORIES	Mounting Brackets	Mounting Brackets 50 100 200 300 mm
		Mounting Brackets - custom length
	Cable Covers	Cable Cover For Eminere 1 2 3 4
	Shields	Shield For Eminere 1 2 3 4
	Optical Demo Set	Optical Demo Set For Eminere 1 2 3 4
	Cables and Connectors	Field Installable Connector FF
		Field Installable Connector FM
		Cable CE WCA Cable US WCA
		Waterproof Cover Cap FM ZAHB-0006
		CE/UL Leader Cables FF for Eminere:
CE/UL Jumper Cables FF/FM for Eminere:	Jumper Cable FF/FM 0,25 0,5 1 2 3 5 10 m	
Booster Box	Booster Box	

DIMENSIONS

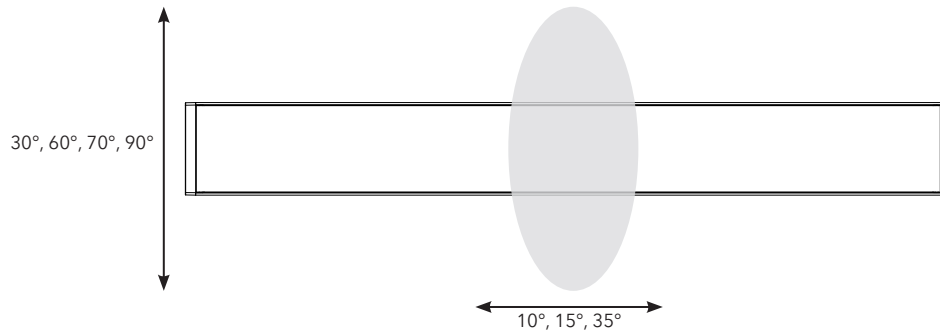


BI-SYMMETRICAL BEAM ANGLES

Bi-symmetrical: 10°x30°, 10°x60°, 35°x70°, 15°x90°



Bi-symmetrical: 30°x10°, 60°x10°, 70°x35°, 90°x15°



PHOTOMETRIC OVERVIEW

Based on RGBW version, all leds @ full

Lumen Output (lm)

	EMINERE 1	EMINERE 2	EMINERE 3	EMINERE 4
9°	1 147	2 294	3 441	4 588
15°	978	1 956	2 910	3 912
30°	1 046	2 092	3 138	4 184
50°	1 039	2 078	3 117	4 156
65°	1 040	2 080	3 120	4 160
100°	996	1 992	2 988	3 984
10° x 30°	1 032	2 064	3 096	4 128
10° x 60°	1 051	1 874	2 811	3 748
15° x 90°	970	1 940	2 934	3 880
35° x 70°	1 040	2 080	3 120	4 160
WallWasher	952	1 904	2 856	3 806
Wide WallWasher	854	1 708	2 562	3 416

COLOUR MIXING PRINTS

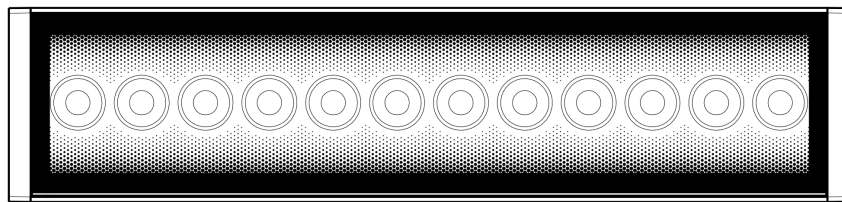
STAND ALONE

Specially designed glass printing to achieve optimal colour mixing and intensity distribution.

HEAD2HEAD

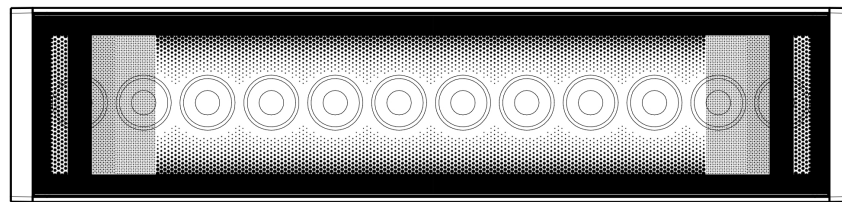
Fixtures without special end glass print installed right next to each other create absolutely perfect colour and intensity overlap.

Note:
Applies for RGBW, RGBA versions.
Pure white and Tunable white versions are always without the end print (no matter on their position to other fixture).

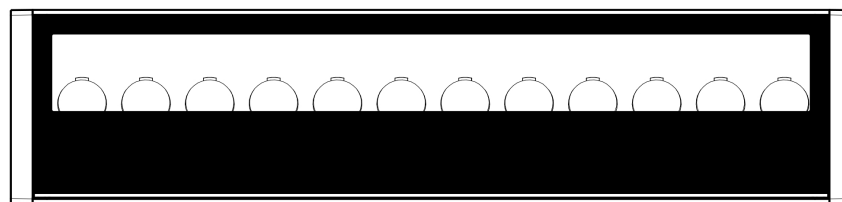


HEAD2HEAD

SYMMETRICAL

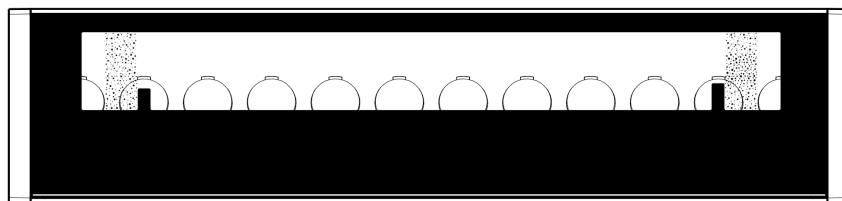


STAND ALONE



HEAD2HEAD

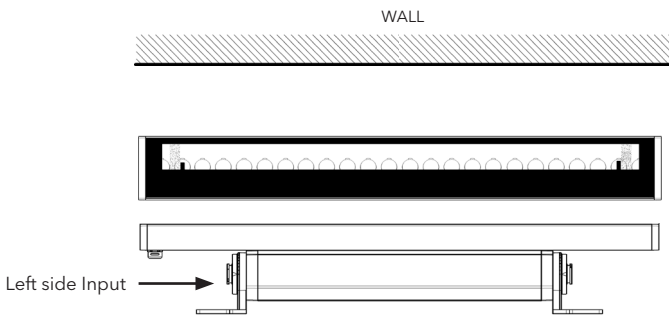
WALLWASHER



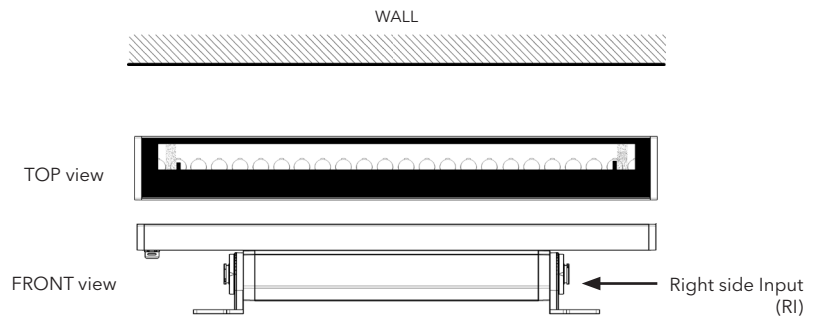
STAND ALONE

EMINERE WALLWASHER INPUT OPTIONS

STANDARD



UPON REQUEST



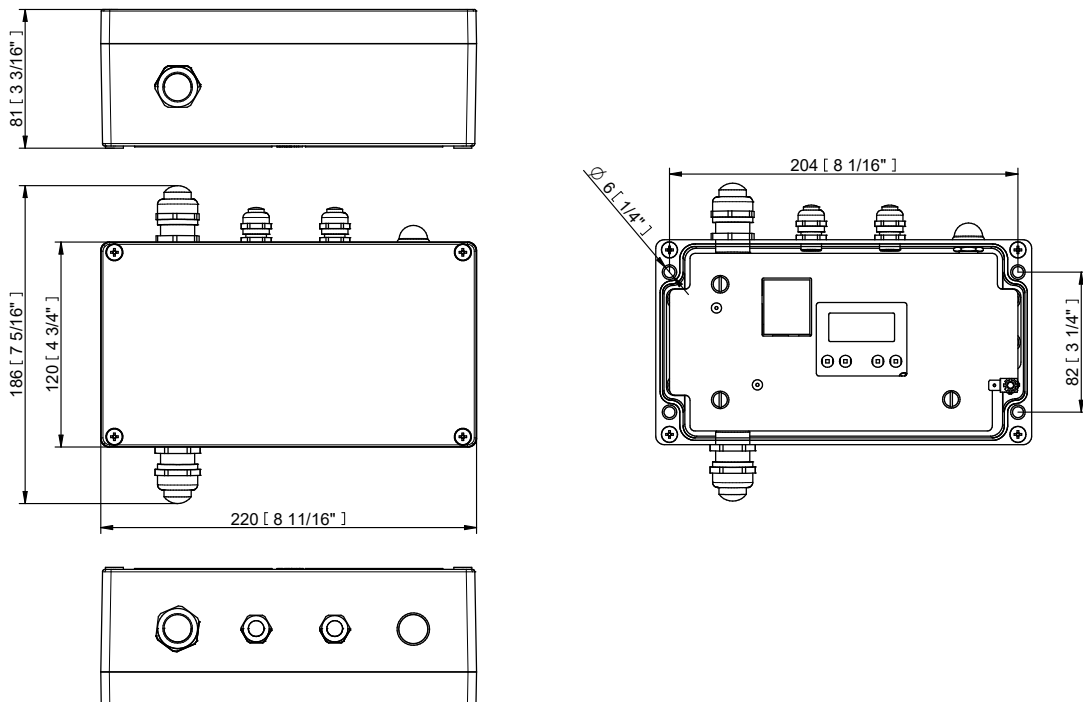
E-BOX SPECIFICATION

ELECTRICAL	Input Voltage	120 - 277 V AC 50/60 Hz		
	Wireless DMX (Option)	Lumen Radio CRMX Technology		
CONTROL	Interface Protocol	E-box Lite: USITT DMX512, RDM E-box Daisy / Star: USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net		
	Operating Modes	E-box Lite / Daisy: Fixture Mode, Pixel Mode, Output Mode E-Box Star: Total Mode, Fixture Mode, Pixel Mode, Output Mode		
	Display	Via Two Row LCD Display with Control Buttons or RDM communicator		
	Control System	E-box With Self Addressing Feature or Custom Setting Via LCD Display/RDM		
	Power Supply	Integrated		
	Connectivity	E-box Lite	144 of Eminere 1 (@ 230 V and 40m cable) via 1 Output	
		E-box Daisy	144 of Eminere 1 (@ 230 V and 40m cable) via 1 Output	
E-box Star		144 of Eminere 1 (@ 230 V and 40m cable) via 6 Outputs		
PHYSICAL	Length x Width x Height	E-box Lite	220 x 120 x 81 mm (8.66 x 4.72 x 3.18 in.)	
		E-box Daisy	260 x 160 x 91 mm (10.24 x 6.30 x 3.58 in.)	
		E-box Star	280 x 230 x 111 mm (11.02 x 9.06 x 4.37 in.)	
	Weight	1.67 kg 3.85 lbs	2.78 kg 6.13 lbs	4.4 kg 9.7 lbs
	Housing	Die-Cast Aluminium Case		
	Finish Options	Standard Colour - Graphite Black (RAL 9011) Silver (RAL 9006)		
		Cost Option - Custom RAL Harsh Environment (RAL 9016, RAL 9011)		
	Cables / Connections	Cable Grommet (stainless steel)		
	Mounting Method	Surface Mount , 4 Mounting Holes		
	Protection Factor	IP67 / Suitable For Wet Locations		
IK Rating	IK10			
Cooling System	Convection			
Operating Ambient Temperature	-20 °C / +40 °C (-4 °F / +104 °F)			
CERTIFICATION	Listings	ETL / cETL, CE, RoHS		

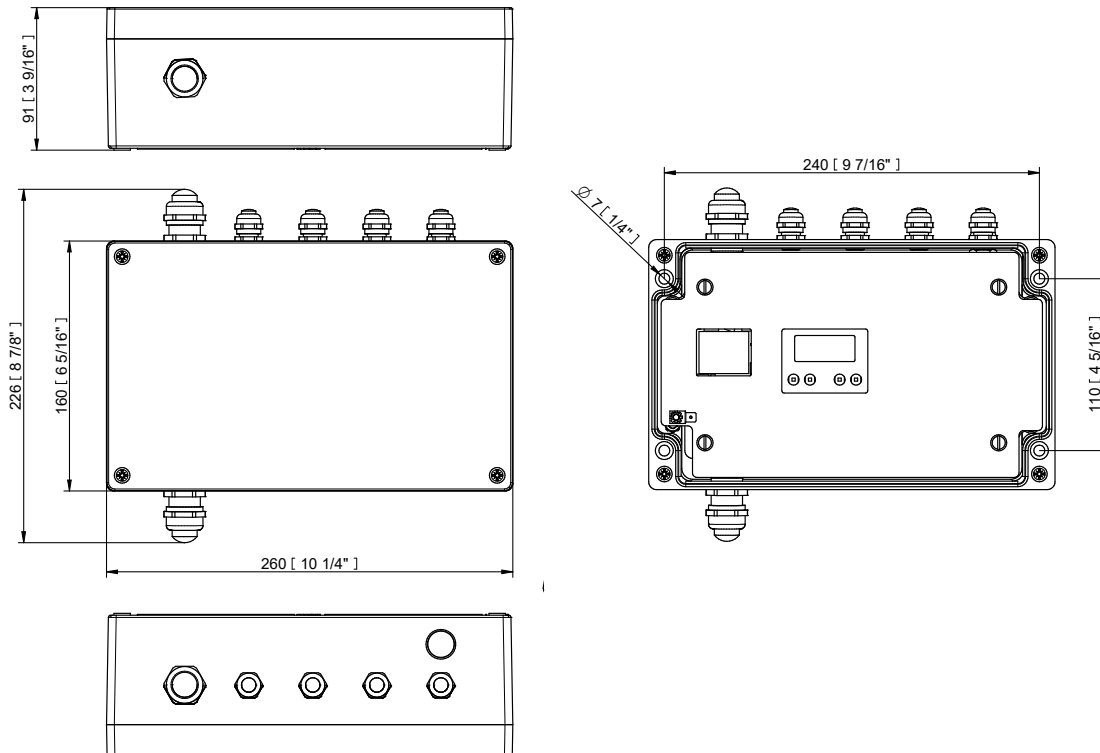
COMPARISON

	E-BOX LITE	E-BOX DAISY	E-BOX STAR
Power input	1	1	1
Fixture Output	1	1	6
Total load (current)	16A	16A	16A
DMX control	YES	YES	YES
RDM	YES	YES	YES
Art-Net	NO	YES	YES
Ethernet switch	NO	YES	YES
Kling-Net	NO	YES	YES
sACN	NO	YES	YES
MA Net, MA Net2	NO	YES	YES

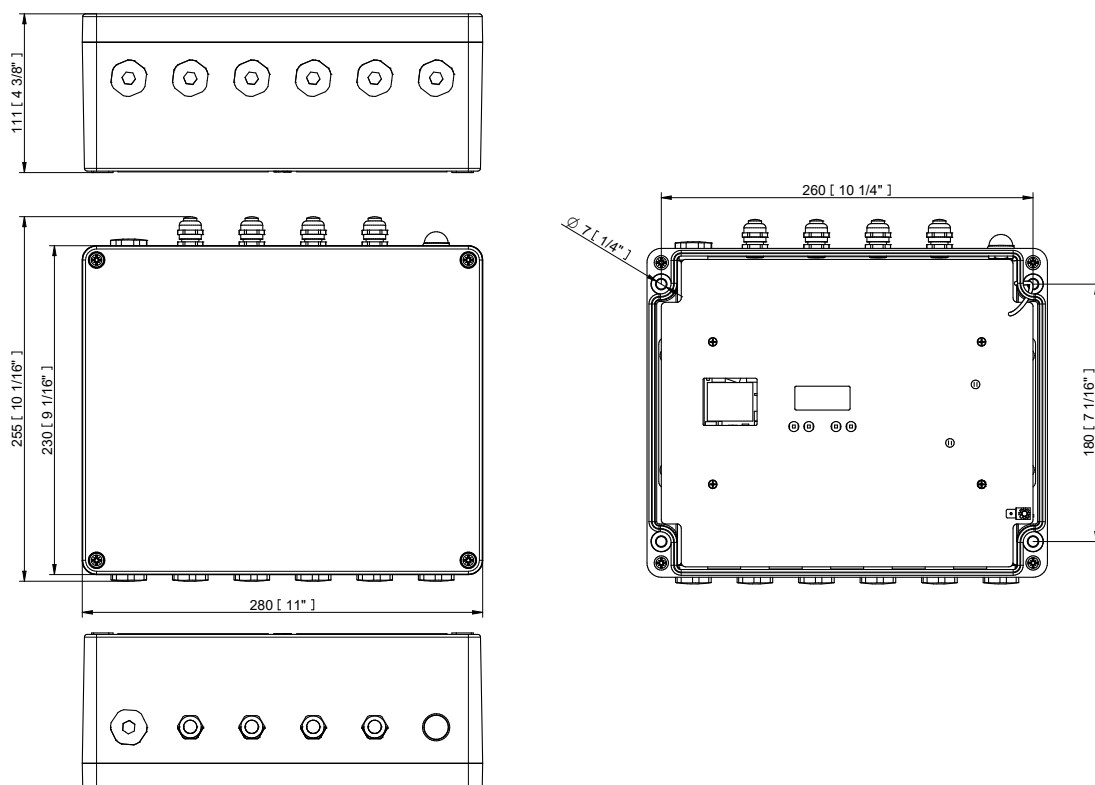
E-BOX LITE



E-BOX DAISY

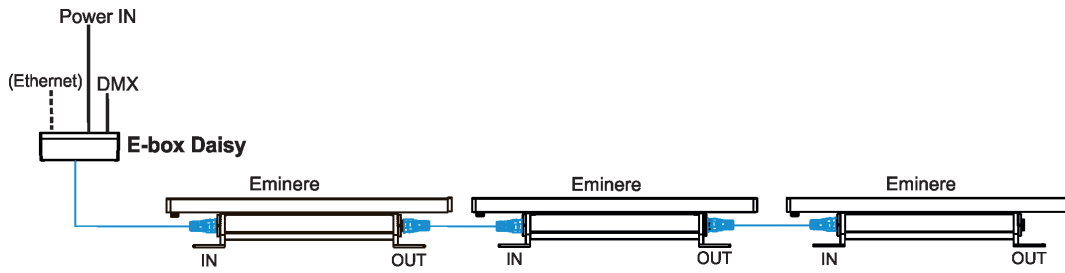


E-BOX STAR

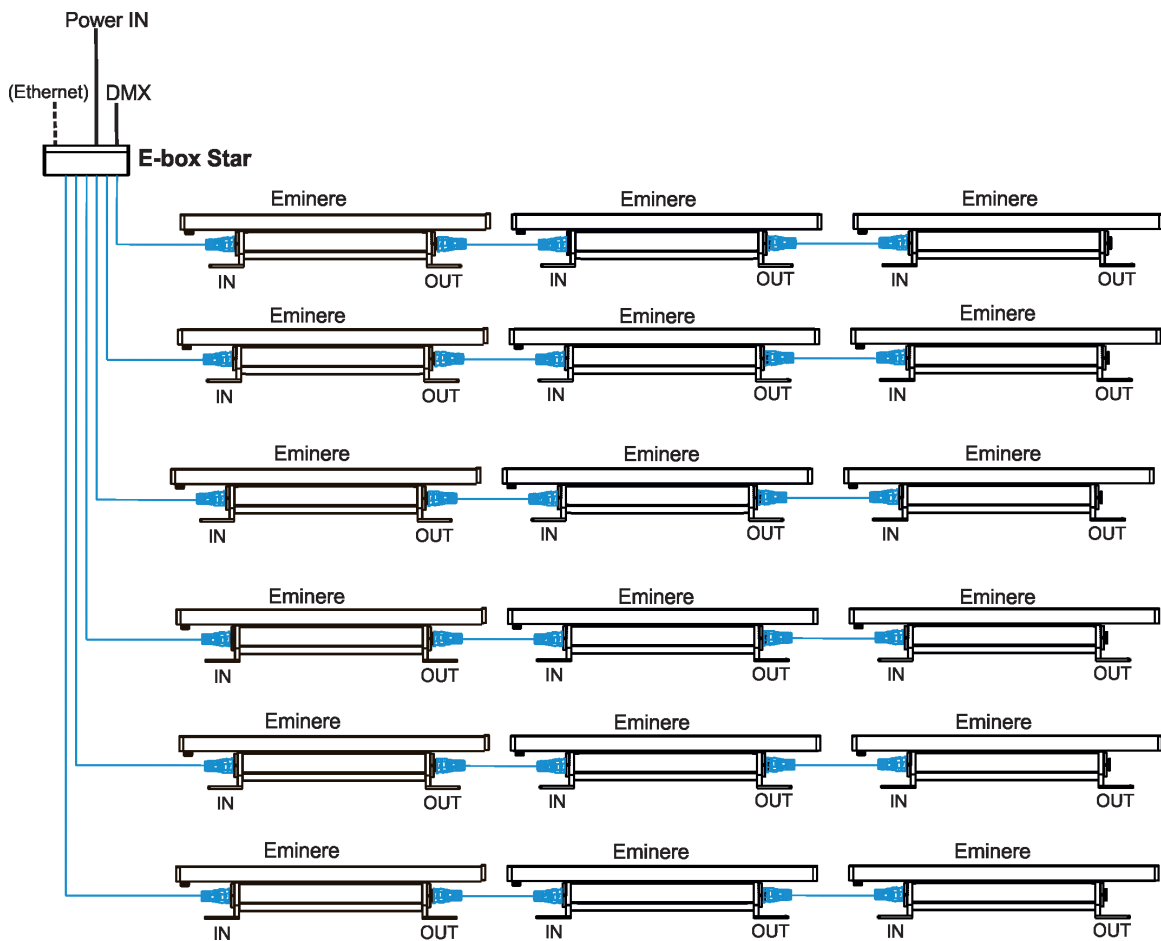


CONNECTION

E-BOX LITE / DAISY

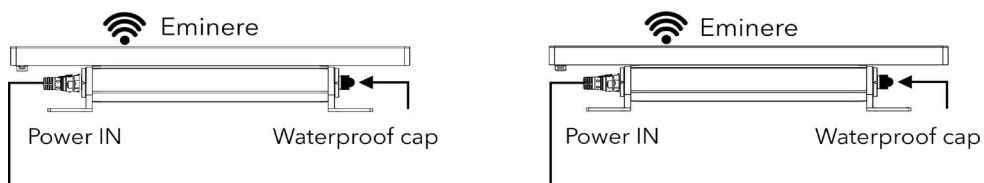


E-BOX STAR



CONNECTION - WIRELESS VERSION

Connection setup, where every Eminere is independently accepting data from WIFI.



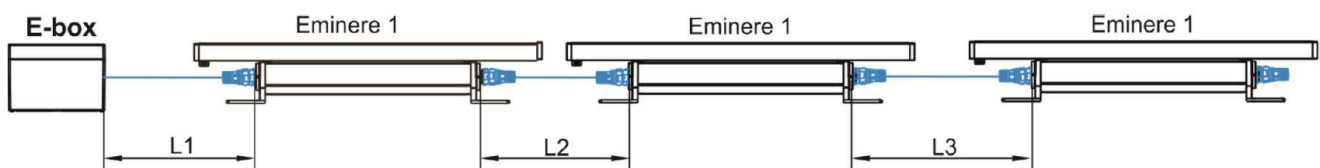
CONNECTIVITY

Following table shows maximum connected Emineres on each output of E-Box with respect of cable length.

	Cable length (m)	Voltage (V)				
		100	120	190	230	277
EMINERE 1	10	69	83	131	159	191
	20	61	83	131	159	191
	30	40	58	131	159	191
	50	24	35	88	128	186
	70	17	25	63	92	133
	100	12	17	44	64	93
	200	6	9	22	32	47
EMINERE 2	10	34	41	64	78	94
	20	30	41	64	78	94
	30	20	28	64	78	94
	50	12	17	43	63	91
	70	8	12	31	45	65
	100	6	9	21	31	46
	200	3	4	11	16	23

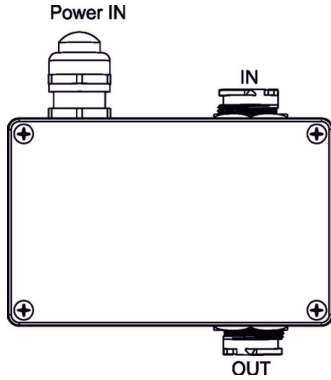
	Cable length (m)	Voltage (V)				
		100	120	190	230	277
EMINERE 3	10	23	28	44	53	64
	20	20	28	44	53	64
	30	13	19	44	53	64
	50	8	12	29	43	62
	70	6	8	21	31	44
	100	4	6	15	21	31
	200	2	3	7	11	16
EMINERE 4	10	17	21	33	40	48
	20	15	21	33	40	48
	30	10	15	33	40	48
	50	6	9	22	32	47
	70	4	6	16	23	38
	100	3	4	11	16	23
	200	2	2	5	8	12

* Cable length is a total cable length between E-box and last connected Eminere. Example: Total cable length=L1+L2+L3

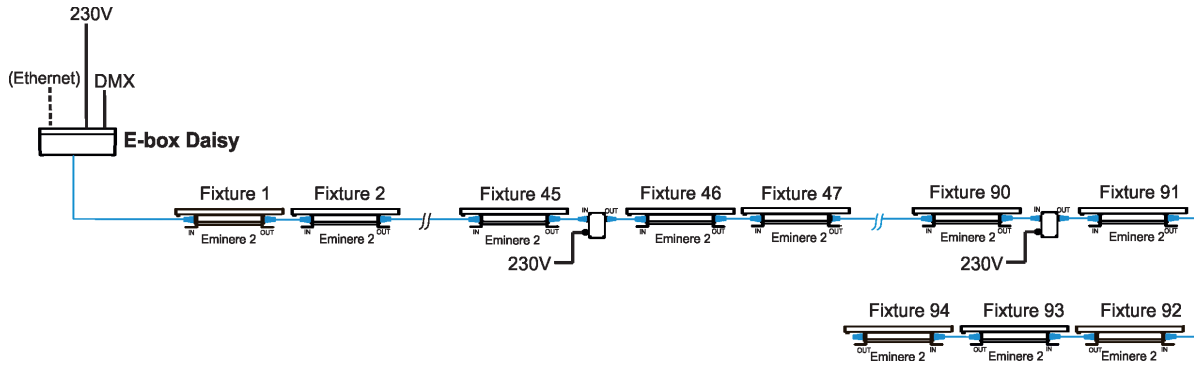


THE BOOSTER BOX

To compensate a voltage drop in a large installation, the Booster boxes have to be connected in the chain of Eminere modules.



Example: E-box Daisy, Power supply= 230V, Cable length=70m, fixture=Eminere 2.
The Booster box has to be connected after every 45th Eminere 2 (fixture 45 and fixture 90) from 94 fixtures.

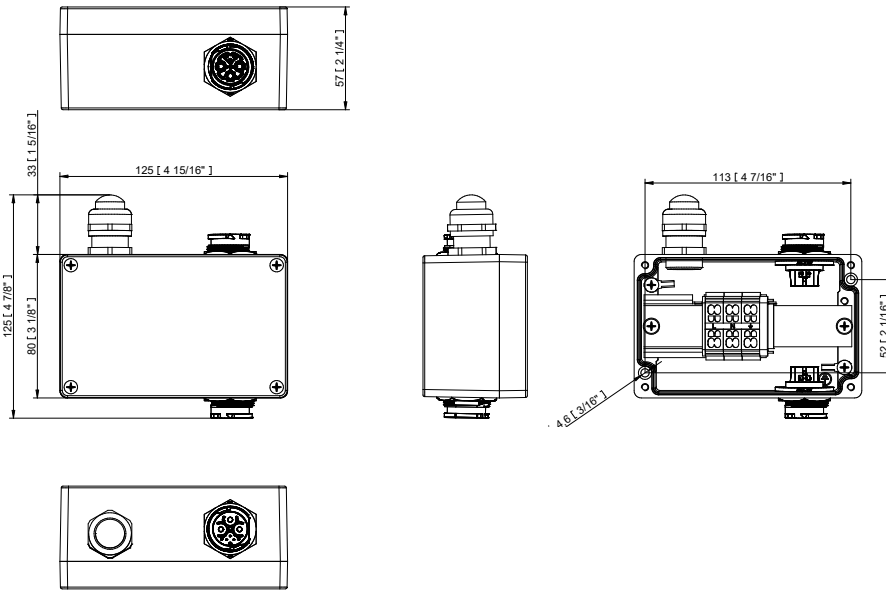


BOOSTER BOX POSITIONS

Cable length (m)	Max. number of Emineres 1 = 191 (in Standard mode)			
	120 V	190 V	230 V	277 V
10 m	83,166	131	159	-
20 m	83,166	131	159	-
30 m	58,116,174	131	159	-
50 m	35,70,105,140,175	88,176	128	186
70 m	25,50,75,100,125,150,175	63,126,189	92,184	133
100 m	17,34,51,68,85,102,119,136,153,170,187	44,88,132,176	64,128	93,186
200 m	9,18,27,36,45,54,60,72,81,90,99,108,117,126,135,144, 153,162,171,180,189,	22,44,66,88,110,132,154,176	32,64,96,128,	47,94,141,188

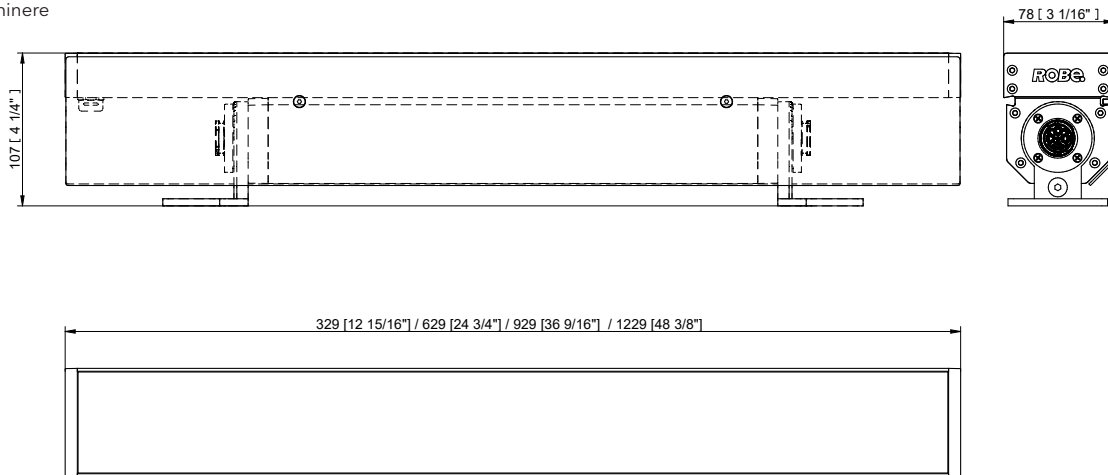
NOTE: For more detail see the User manual.

DIMENSIONS

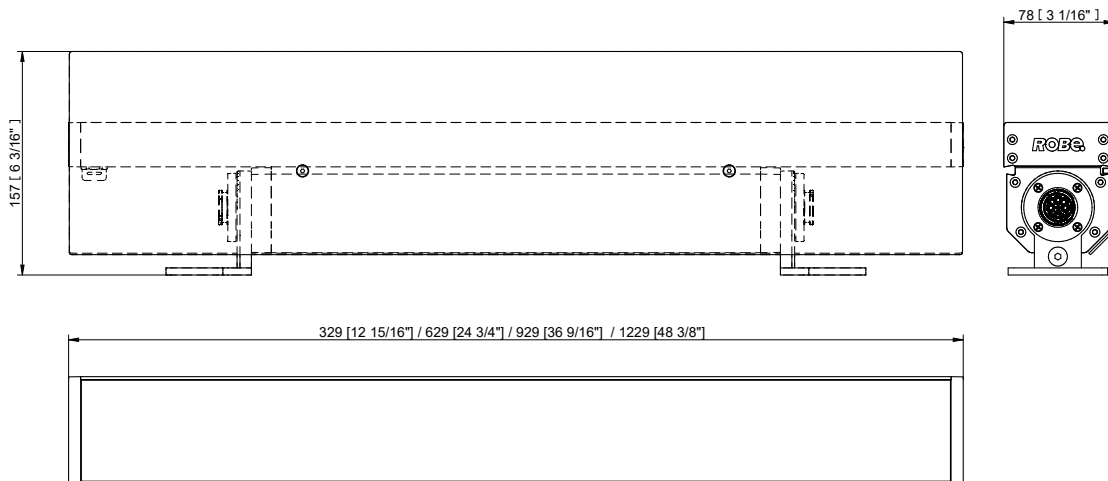


ACCESSORIES

Cable Cover for Eminere

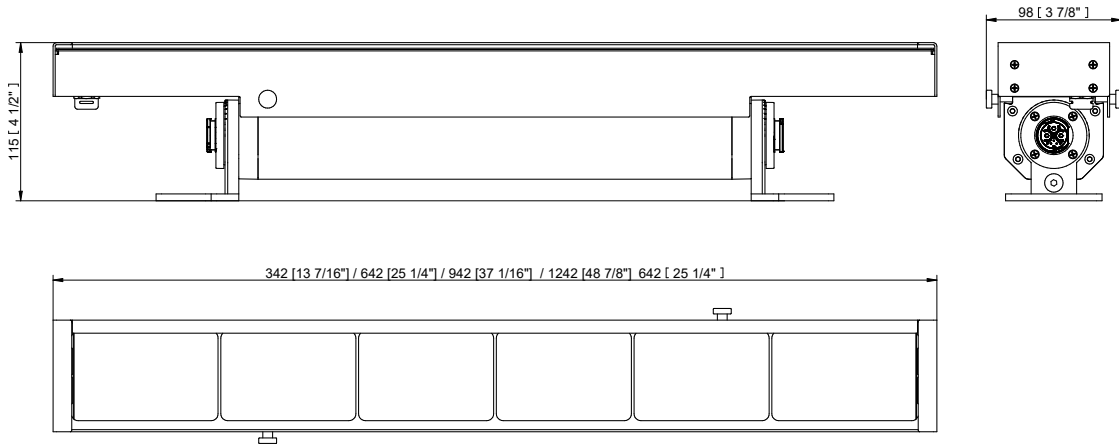


Shield for Eminere

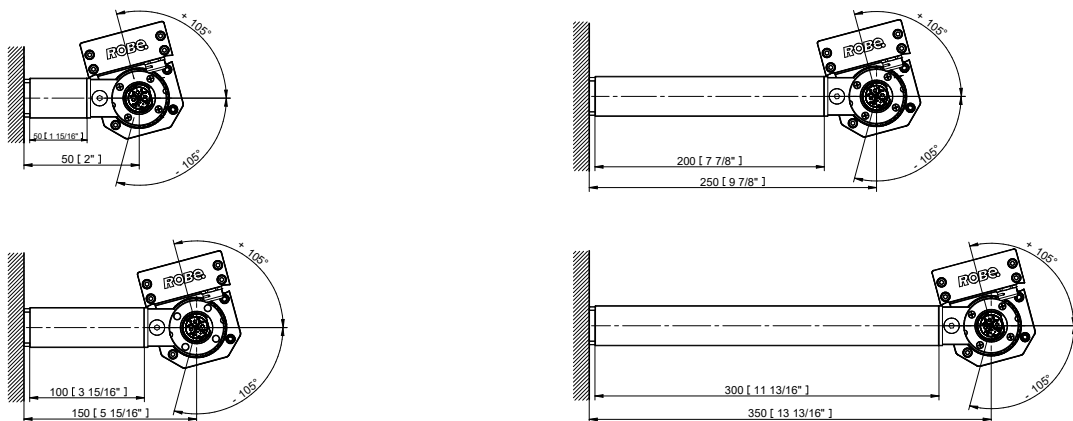


ACCESSORIES

Optical Demo Set

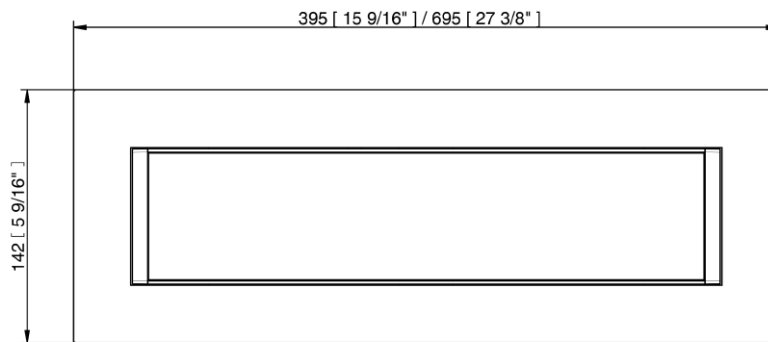
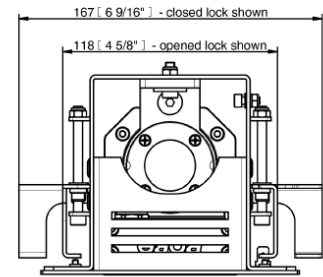
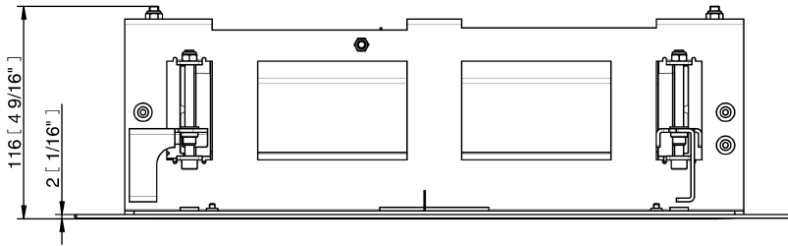


Mounting brackets



ACCESSORIES

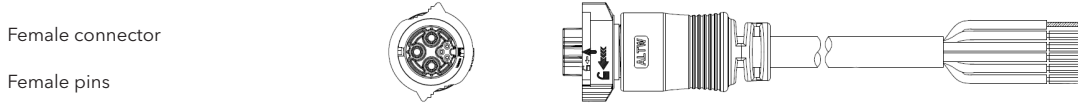
Ceiling Adaptor for Eminere 1 / 2 - custom option



NOTE: This option requires possibility to connect cables to the fixture above a false ceiling. For other connection options please contact the factory.

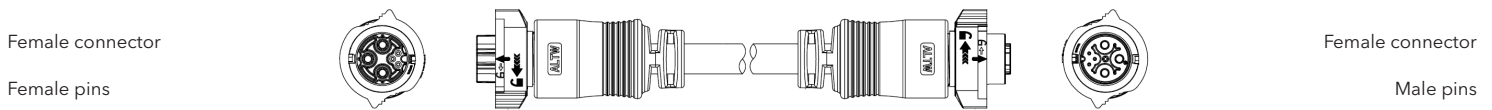
CABLES

Leader Cable - for connecting E-Box with first Eminere. Comes with Waterproof End Cap which has to be installed to the last Eminere's output connector.



Female connector
Female pins

Jumper Cable - for connection between two Emineres.

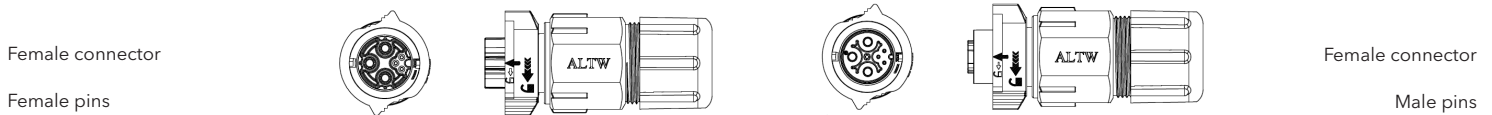


Female connector
Female pins

Female connector
Male pins

Field installable connector

- for special cases, where Jumper Cable can't be used. Then use Leader Cable with Field installable connector to make a connection between Emineres.



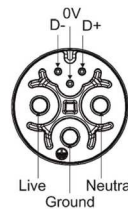
Female connector
Female pins

Female connector
Male pins

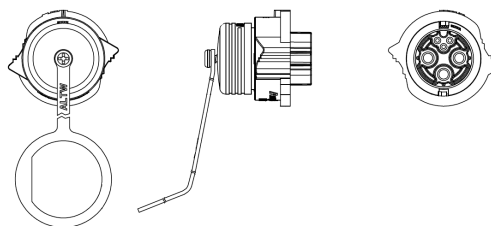
Output - panel connector (front view)



Input - panel connector (front view)



Waterproof End Cap - Install at the end of line to the last Emineres output connector.



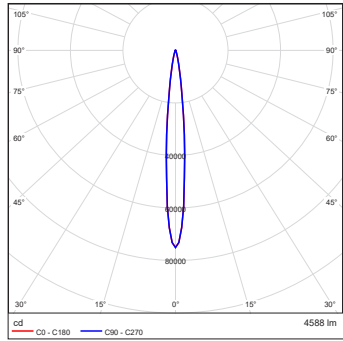
Cable lengths available

IN METRES	LEADER CABLE	JUMPER CABLE
0,25	-	YES
0,5	-	YES
1	-	YES
2	YES	YES
3	-	YES

IN METRES	LEADER CABLE	JUMPER CABLE
5	YES	YES
10	YES	YES
25	YES	-
50	YES	-

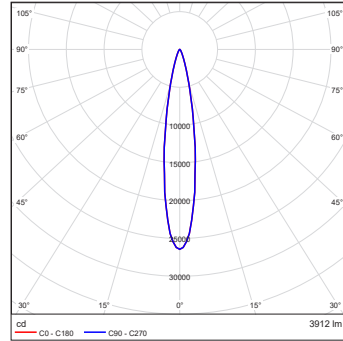
PHOTOMETRIC DATA

Eminere 4 RGBCW 9dg



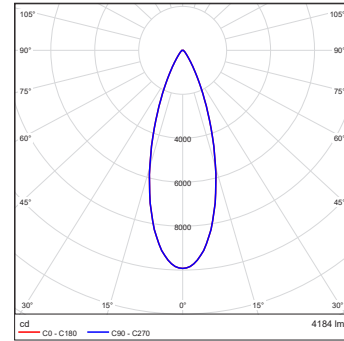
Distance [m]	Cone diameter [m]	E _(0°) [lx]	E _(C0) [lx]
0.50	0.09	300195	148136
1.0	0.18	75049	37284
1.5	0.28	33355	16571
2.0	0.37	18762	9121
2.5	0.46	12008	5965
3.0	0.56	8339	4143

Eminere 4 RGBCW 15dg



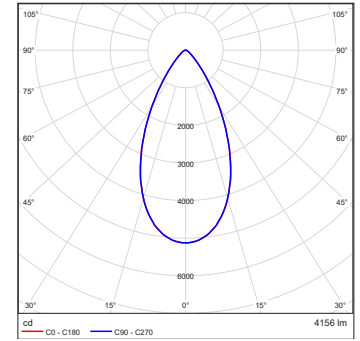
Distance [m]	Cone diameter [m]	E _(0°) [lx]	E _(C0) [lx]
0.50	0.16	105716	51134
1.0	0.31	26429	12784
1.5	0.47	11746	5682
2.0	0.63	6607	3196
2.5	0.78	4229	2045
3.0	0.94	2837	1420

Eminere 4 RGBCW 30dg



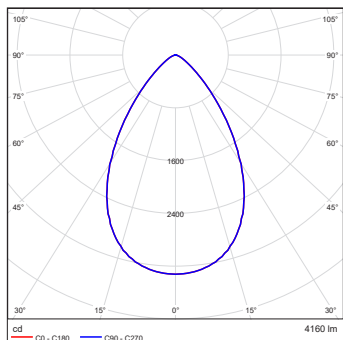
Distance [m]	Cone diameter [m]	E _(0°) [lx]	E _(C0) [lx]
0.50	0.30	39891	17621
1.0	0.61	9923	4386
1.5	0.91	4410	1947
2.0	1.2	2481	1095
2.5	1.5	1588	701
3.0	1.8	1103	487

Eminere 4 RGBCW 50dg



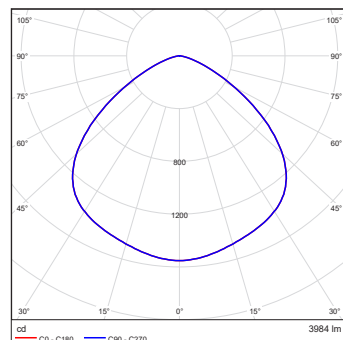
Distance [m]	Cone diameter [m]	E _(0°) [lx]	E _(C0) [lx]
0.50	0.48	2054	7911
1.0	0.96	512	1878
1.5	1.4	227	835
2.0	1.9	128	469
2.5	2.4	82	300
3.0	2.9	57	209

Eminere 4 RGBCW 65dg



Distance [m]	Cone diameter [m]	E _(0°) [lx]	E _(C0) [lx]
0.50	0.66	13290	3853
1.0	1.3	3323	963
1.5	2.0	1477	428
2.0	2.7	831	241
2.5	3.3	532	154
3.0	4.0	399	107

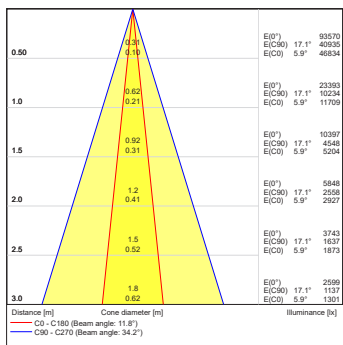
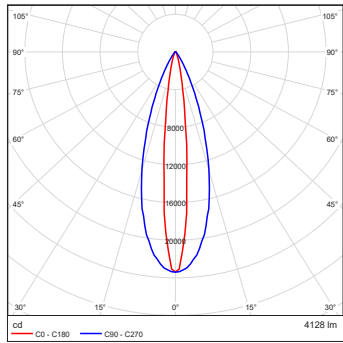
Eminere 4 RGBCW 100dg



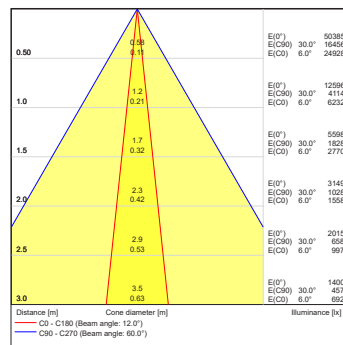
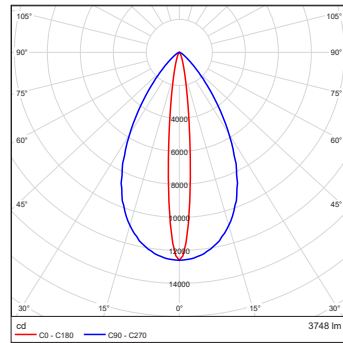
Distance [m]	Cone diameter [m]	E _(0°) [lx]	E _(C0) [lx]
0.50	1.4	6209	662
1.0	2.7	1542	163
1.5	4.1	690	72
2.0	5.4	388	41
2.5	6.8	248	26
3.0	8.1	172	18

PHOTOMETRIC DATA

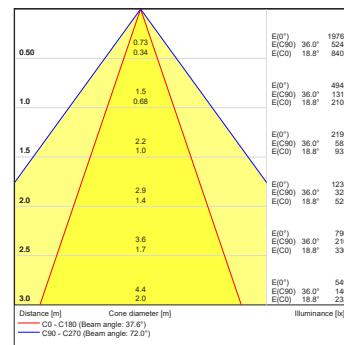
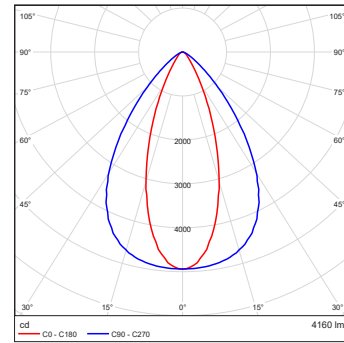
Eminere 4 RGBCW 10dg x 30dg



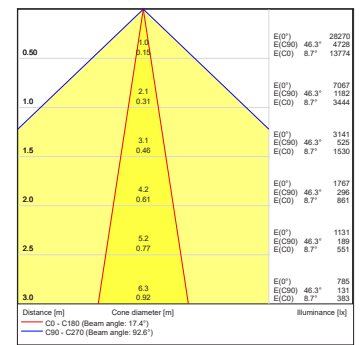
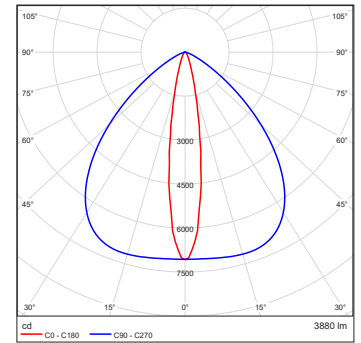
Eminere 4 RGBCW 10dg x 60 dg



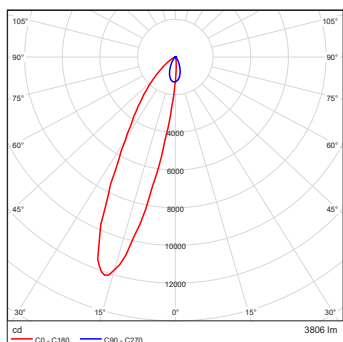
Eminere 4 RGBCW 35dg x 70dg



Eminere 4 RGBCW 15dg x 90dg



Eminere 4 RGBCW WallWasher



Eminere 4 RGBCW Wide WallWasher

